

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

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GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

12/09/2011

Larry Bates  
Assistant District Attorney, Suffolk County

Dear ADA Bates,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for sample [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples [REDACTED]

Ann Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

## Curriculum Vitae

Annie Khan (Dookhan)

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

\*Maintenance and repairs of all analytical instruments.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Notary Public.

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department for the Food and Drug Administration.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Kate A. Corbett

### Education

**Bachelor of Science Degree, CHEMISTRY May 2003**

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

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### Employment

**Chemist II State Laboratory Institute (March 2008-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

**Chemist I State Laboratory Institute (2005-March 2008)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

**Research Associate (September 2003 – August 2005)**

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

**Intern (March 2003 – August 2003)**

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



BOOK #

PAGE #.

DESTRUCTION #

District/Unit

DH

Name &amp; Rank of Arresting Officer

Officer David DePaolo

ID#

116

DEFENDANT'S NAME

ADDRESS

CITY

STATE

**LAB USE ONLY**

DESCRIPTION OF ITEMS SUBMITTED

GROSS  
QUANTITYGROSS  
WEIGHTANALYSIS  
NUMBER

Heroin

Small (LWSA) (4)  
Baggie #16  
(4 Rocks w/  
Residue)

8.076

**To be completed by ECU personnel only**

Name and Rank of Submitting Officer

ID#



Received by

Date \_\_\_\_\_

12-16-10

ECU Control #

No. [REDACTED]  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]

Date Analyzed: 3/3/11

Amount:

Subst: SUB

No. Cont: 1 Cont: p/cello

Date Rec'd: 12/16/2010

No. Analyzed:

Gross Wt.: 8.07

Net Weight: 0.03

# Tests: 4 ASD  
26AF

Prelim: Heroin

Findings:

Heroin

# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST ADD

No. of samples tested: \_\_\_\_\_

Evidence Wt. \_\_\_\_\_

## PHYSICAL DESCRIPTION:

Beige powdered substance  
in icello

Gross Wt ( ): \_\_\_\_\_

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 0.0339

also contained straw + cottonbolls.

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( + ) \_\_\_\_\_

Marquis + \_\_\_\_\_

Froehde's + \_\_\_\_\_

Mecke's + \_\_\_\_\_

### Microcrystalline Tests

Gold  
Chloride \_\_\_\_\_

TLTA ( ) \_\_\_\_\_

### OTHER TESTS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 3-1-11

## GC/MS CONFIRMATORY TEST

RESULTS Heroin

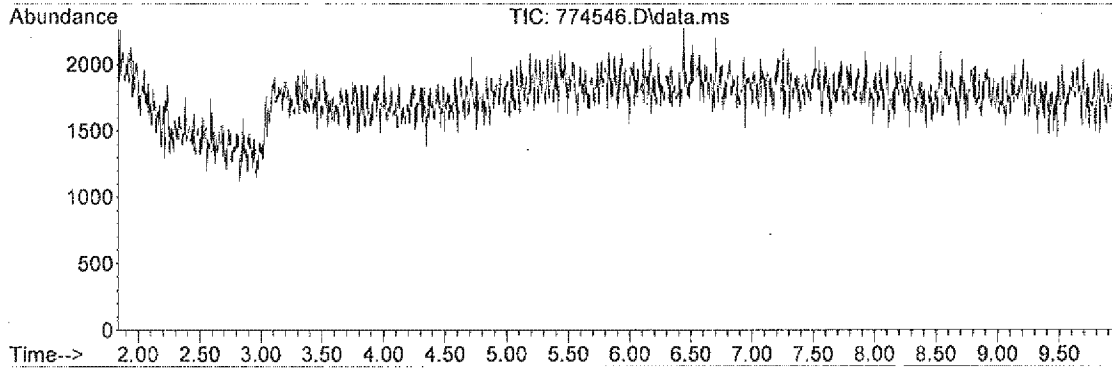
MS  
OPERATOR KAC

DATE 3-3-11

✓ KAC  
12/8/11

## Information from Data File:

File Name : I:\03\_02\_11\774546.D  
Operator : ASD/KAC  
Date Acquired : 2 Mar 2011 22:02  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

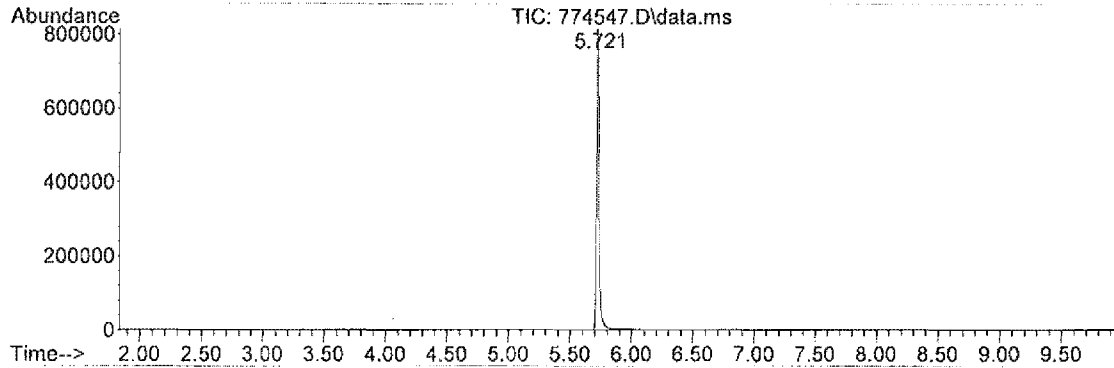


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : I:\03\_02\_11\774547.D  
Operator : ASD/KAC  
Date Acquired : 2 Mar 2011 22:14  
Sample Name : HEROIN STD  
Submitted by : ASD  
Vial Number : 47  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.721	1123147	100.00	100.00



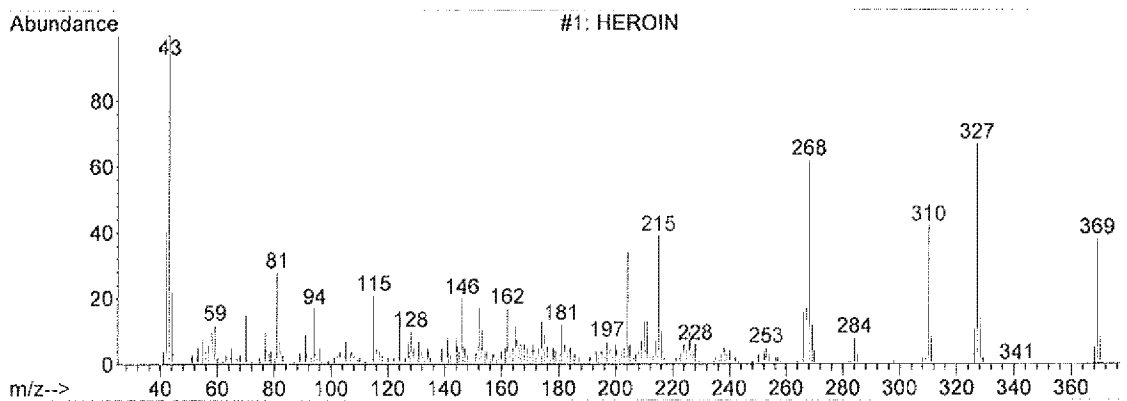
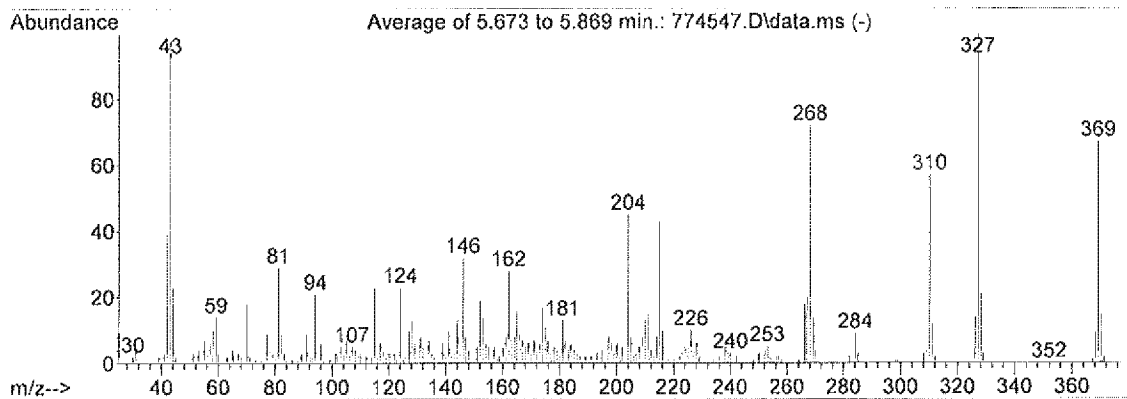
# Area Percent / Library Search Report

**Information from Data File:**

File Name : I:\03\_02\_11\774547.D  
 Operator : ASD/KAC  
 Date Acquired : 2 Mar 2011 22:14  
 Sample Name : HEROIN STD  
 Submitted by : ASD  
 Vial Number : 47  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST08.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	5.72	C:\Database\SLI.L HEROIN	000561-27-3	99



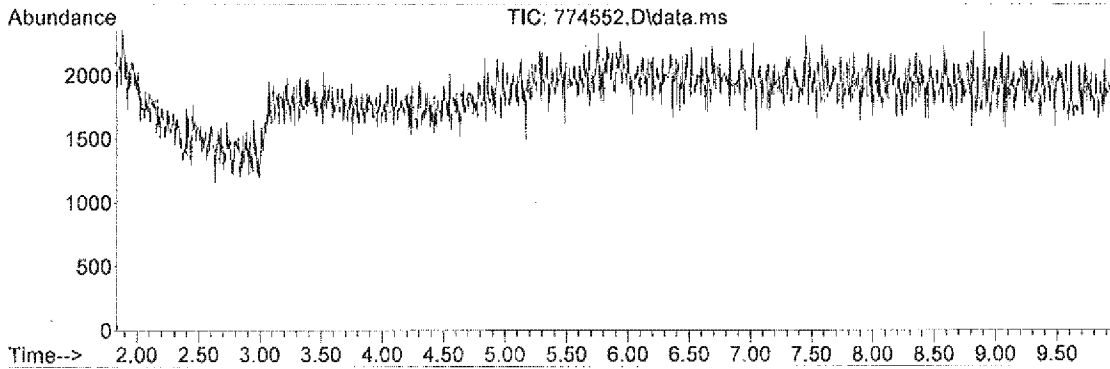
Area Percent / Library Search Report

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Information from Data File:

File Name : I:\03\_02\_11\774552.D  
Operator : ASD/KAC  
Date Acquired : 2 Mar 2011 23:18  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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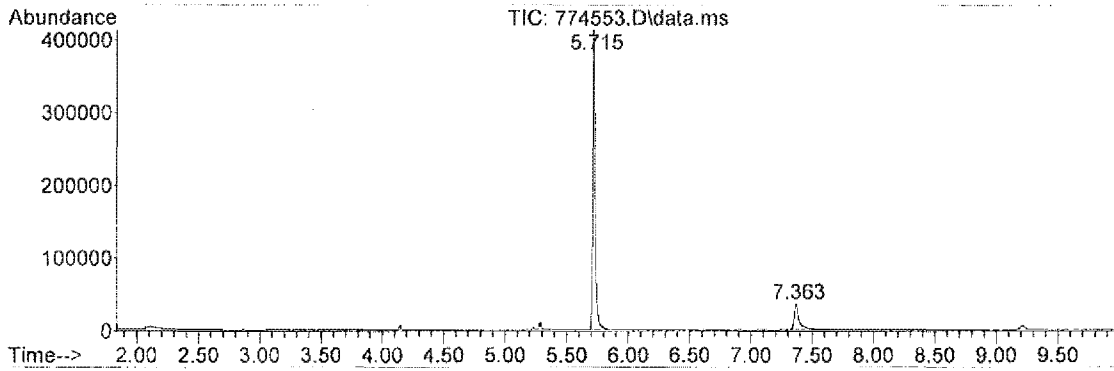
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

**Information from Data File:**

File Name : I:\03\_02\_11\774553.D  
 Operator : ASD/KAC  
 Date Acquired : 2 Mar 2011 23:31  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 53  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.715	569584	84.97	100.00
7.363	100753	15.03	17.69

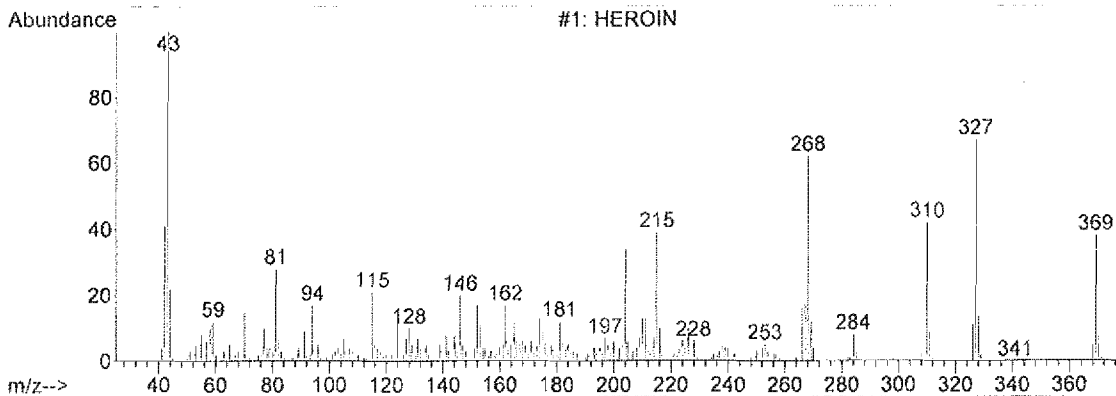
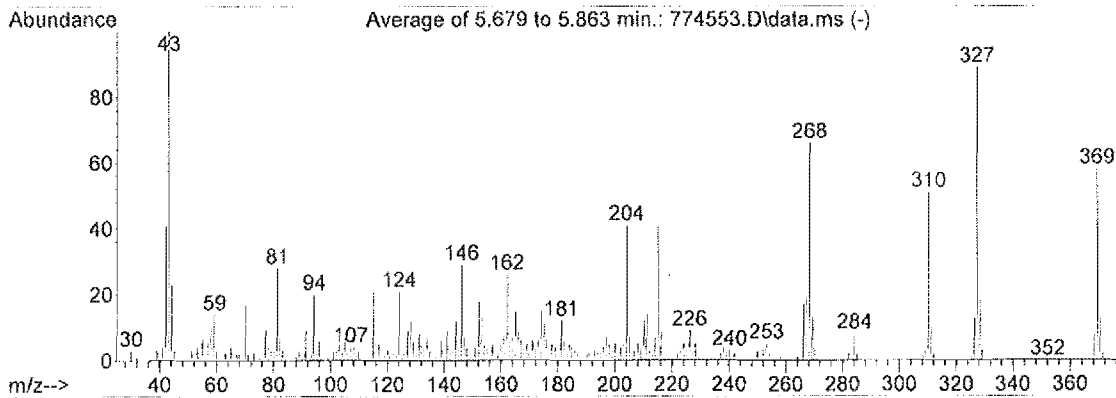
# Area Percent / Library Search Report

**Information from Data File:**

File Name : I:\03\_02\_11\774553.D  
 Operator : ASD/KAC  
 Date Acquired : 2 Mar 2011 23:31  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 53  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST08.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	5.71	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2

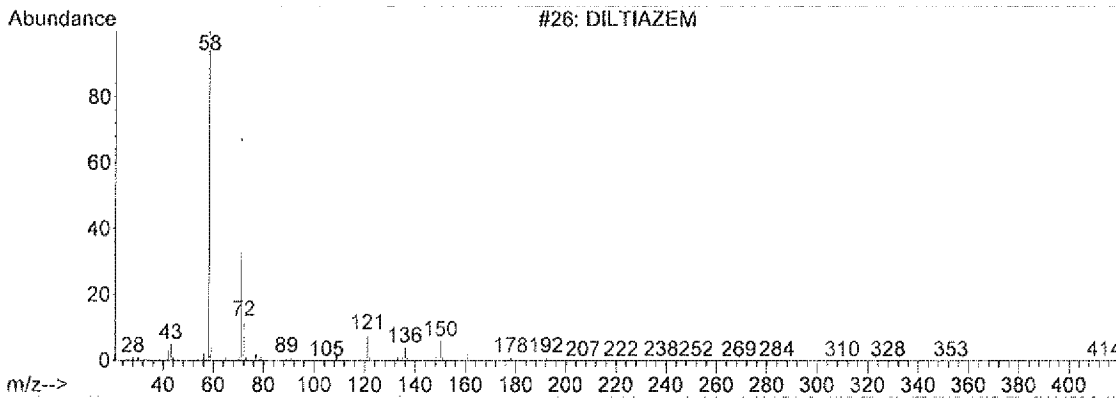
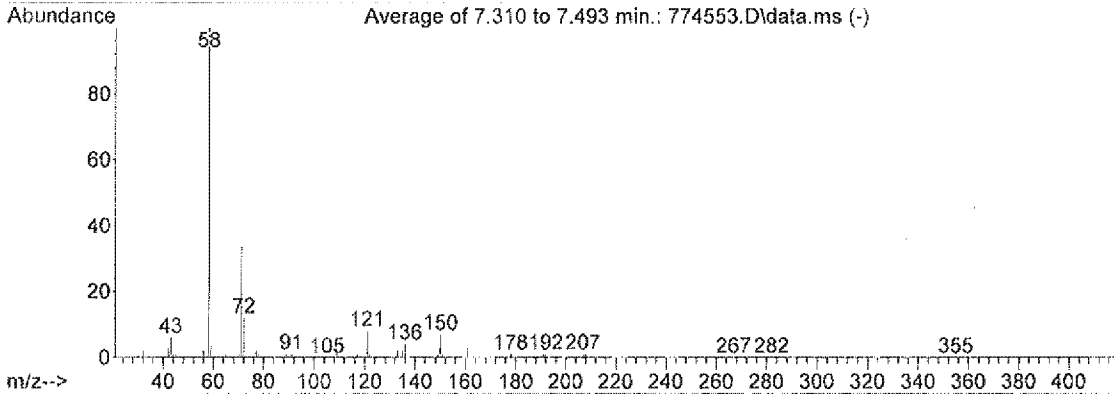


## Information from Data File:

File Name : I:\03\_02\_11\774553.D  
Operator : ASD/KAC  
Date Acquired : 2 Mar 2011 23:31  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 53  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

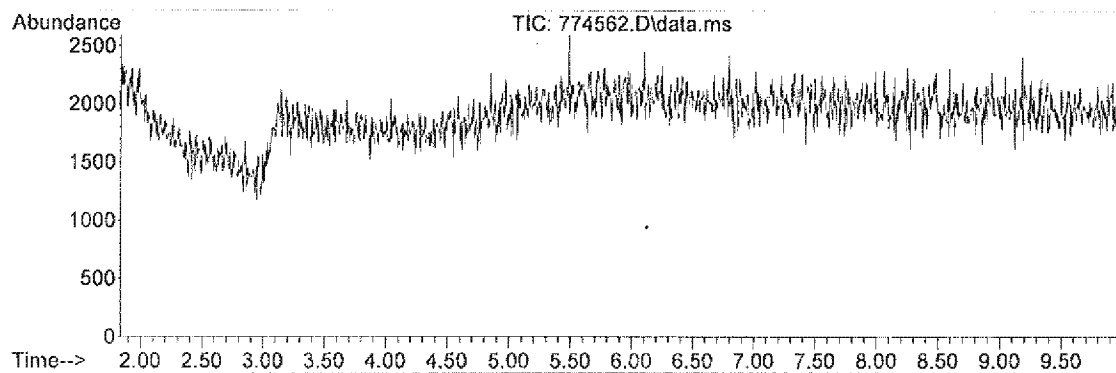
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	7.36	C:\Database\SLI.L		
		DILTIAZEM	033286-22-5	91
		3,4-MDMA	042542-10-9	9
		ORPHENADRINE	000083-98-7	4



## Information from Data File:

File Name : I:\03\_02\_11\774562.D  
Operator : ASD/KAC  
Date Acquired : 3 Mar 2011 1:26  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

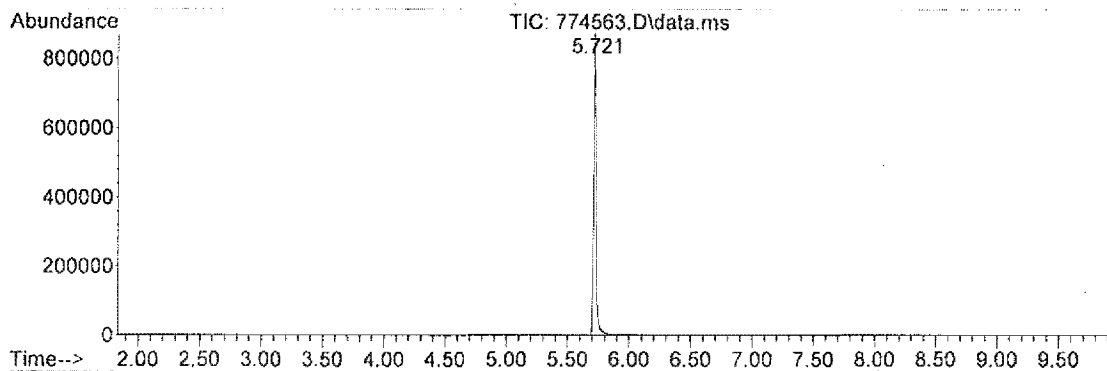


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : I:\03\_02\_11\774563.D  
Operator : ASD/KAC  
Date Acquired : 3 Mar 2011 1:39  
Sample Name : HEROIN STD  
Submitted by : ASD  
Vial Number : 47  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.721	1172366	100.00	100.00

Information from Data File:

```

File Name       : I:\03_02_11\774563.D
Operator        : ASD/KAC
Date Acquired   : 3 Mar 2011   1:39
Sample Name     : HEROIN STD
Submitted by    : ASD
Vial Number     : 47
AcquisitionMeth : DRUGS.M
Integrator      : RTE
    
```

```

Search Libraries: C:\Database\SLI.L           Minimum Quality: 80
                  C:\Database\NIST08.L        Minimum Quality: 80
                  C:\Database\PMW_TOX2.L
    
```

PK#	RT	Library/ID	CAS#	Qual
1	5.72	C:\Database\SLI.L HEROIN	000561-27-3	99

